

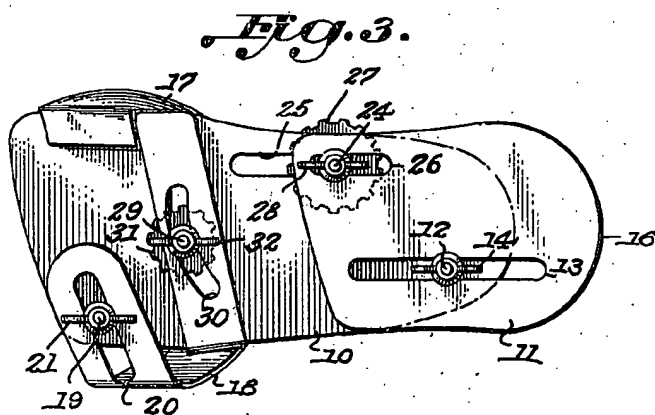
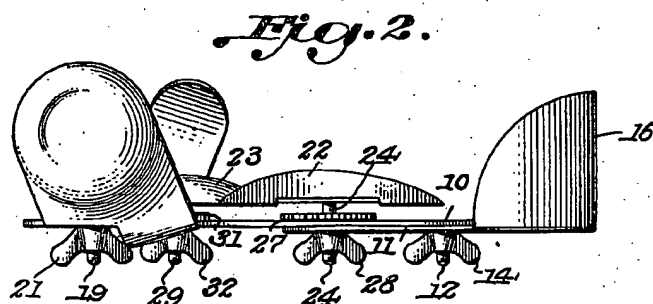
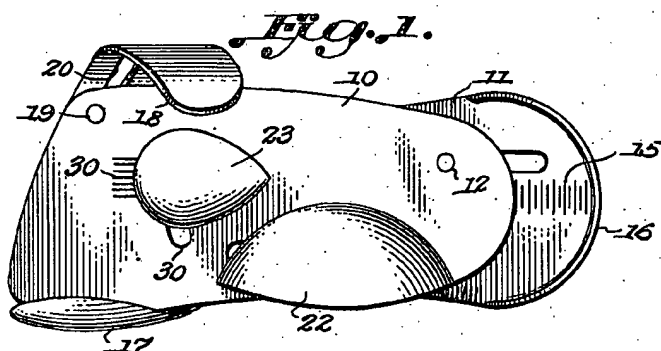
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FOOT MEASURING DEVICE

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FOOT MEASURING DEVICE

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5 Claims. (Cl. 33-3)

1 This invention relates to podiatry, chiropody, or foot treatment, and more particularly to devices for measuring the arches of the feet in order to construct from those measurements an arch or support that will place fallen or weak arches back in a normal position.

Heretofore, in order to fit a person's feet with arches, it has been customary to use a "stock arch" sized similar to shoe sizes and not made for each individual foot, and to trim and alter in an attempt to make a fit.

The result has been that frequently arches have been obtained that did not meet the individual needs and the desired results were not obtained.

The present invention contemplates more accurate measurement of the arches of the feet to obtain better fitting arches so that each foot will derive the utmost in comfort that can be derived from foot correction.

It is an object of the invention to provide a foot measuring device usable as a template to secure the actual measurements and pattern of the human foot including the load supporting soles thereof, such measuring device being adjustable to the desired exact positions so that the 26 bones of the foot are in normal position.

A further object of the invention is to provide a template of the above character so that the proper pattern of the arches of the foot may be obtained so that supporting arches of any material may be constructed either separately from or built into the shoe to place the entire foot of the individual measured in a normal position in order that greater comfort and less discomfort is afforded.

It is a further object of the invention to provide a device of the character described which will show positively the corrections necessary for returning the foot to normal position.

Further objects and advantages of my invention will be apparent from the following specification taken in conjunction with the accompanying drawings, wherein:

Figure 1 is a top plan view illustrating an application of the invention for use in measuring the foot;

Fig. 2, a side elevation of the device of Fig. 1; and

Fig. 3, a bottom plan view.

Referring to the drawings, the invention comprises front and rear base plates 10 and 11 respectively, adapted to be placed beneath and in contact with the bottom of the foot to be measured. These base plates are relatively adjustable in order to accommodate feet of different lengths. The base plate 10 is provided with a stud 12 slid-

2 able in a slot 13 in the rear base plate, and a wing nut 14 on the stud 12 is provided for clamping the parts in fixed relation.

The rear base plate 11 may be provided with a scale 15 for determining the relative positions of the two members. Also, the rear base plate is provided with a hollow heel seat 16 for limiting the movement of the foot rearwardly on the base plate.

At the front of the forward base plate 10 are oppositely disposed width determining members 17 and 18, the former being curved to accommodate the rounded portion of the foot adjacent the joint at the base of the great toe, and being permanently secured to the base plate 10. The width determining member 18 is mounted adjustably with regard to the base plate by means of a stud 19, a slot 20, and a wing nut 21 threadedly mounted on the stud 19 so that the parts can be locked together. The structure just described makes it possible to determine the length and width of the arches of the feet.

In order to determine the configuration of the soles of the foot or the proper arches of the foot, longitudinal and metatarsal arch blocks 22 and 23 are provided. The longitudinal arch block 22 is mounted on a threaded stud 24 which extends through slots 25 and 26 in the base plates 10 and 11, and has an adjusting wheel 27 and a wing nut 28 threadedly mounted on the stud 24. The height and width and forward or backward position of the block 22 can thus be given the necessary adjustment.

The metatarsal block 23 can likewise be adjusted on account of the fact that it is mounted on a threaded stud 29 which extends through a slot 30 in the base plate and is provided with an adjusting member 31, and a wing nut 32 by means of which parts the block may be adjusted laterally, or the angular position of the same varied as desired.

The front base plate may be provided with a scale 33 for determining the position of the arch block 23 and while the same is not necessary a similar scale can be applied to the front base plate for determining the position of the arch block 22. The scales are for measuring distances and sizing and each mark of the scale represents $\frac{1}{8}$ of an inch.

It will be understood from the foregoing that by means of the measuring device described an arch may be made which will have the necessary length and width and to permit freedom of movement of the foot yet give the necessary support to the foot. Also, the arches that are subjected to

great stresses are supported so that maximum comfort and satisfaction will be obtained by the wearer.

It will be obvious to those skilled in the art that various changes may be made in the invention without departing from the spirit and scope thereof and therefore the invention is not limited by that which is shown in the drawing and described in the specification but only as indicated in the appended claims.

What is claimed is:

1. A template for measuring the foot comprising front and rear relatively adjustable base plates, means for locking said base plates in adjusted relation, a heel seat carried by the rear base plate, width measuring members carried adjacent the front end of the forward base plate, means for adjusting the distance between said width measuring members, adjustably mounted arch measuring members including a pair of members having convex arch engaging surfaces, one of said arch measuring members being adjustable longitudinally of said base plates and toward and from the same, and the other of said arch measuring members being adjustable laterally of said base plates and toward and from the same, and means for locking said arch measuring members in adjusted position.

2. A foot measuring device comprising a base member, width measuring members carried by said base member adjacent its front end, means for locking said width measuring members in adjusted relation, adjustably mounted arch measuring members including a pair of members having convex arch engaging surfaces, one of said arch measuring members being adjustable longitudinally of said base plates and toward and from the same, and the other of said arch measuring members being adjustable laterally of said base plates and toward and from the same, and means for locking said arch measuring members in adjusted position.

3. A template for measuring the foot comprising front and rear relatively adjustable base plates, a heel seat carried by the rear base plate, width measuring members carried adjacent the front end of the forward base plate, means for adjusting the distance between said width measuring members, adjustably mounted arch measuring members including a pair of members having convex arch engaging surfaces, one of said arch measuring members being adjustable longitudinally of said base plates and toward and from the same, and the other of said arch measuring

members being adjustable laterally of said base plates and toward and from the same.

4. A template for measuring the foot comprising front and rear relatively adjustable base plates, said rear base plate being provided with indicia for indicating the relative setting between said base plates, means for locking said base plates in adjusted relation, width measuring members adjustably carried adjacent the front end of the forward base plate, and arch members adjustably mounted on said forward base plate, one being disposed in position to engage the instep and the other to engage the metatarsal arch, the former being adjustable longitudinally of the base plates and toward and from the same and the latter being adjustable transversely of the base plates and toward and from the same.

5. A template for measuring the foot comprising front and rear relatively adjustable base plates, said rear plate having a plurality of longitudinal slots therein, a stud attached to said front plate and adapted to be received by one of the longitudinal slots, adjustable fastening means attached to said stud in order that said plates may be moved relative and be locked in adjusted relationship, width measuring members carried adjacent the forward end of the front base plate, one of said width measuring members being fixed to said front base plate and the other being slidably attached thereto, said front plate having a longitudinal slot adapted to overlie one of the longitudinal slots in the rear base plate, an arch member for engaging the instep positioned over said slots and secured to said base plates by a stud passing through said slots, means for adjustably spacing the instep arch member from the base plates, said front base plate having an arcuate slot, and an arch member for engaging the metatarsal arch attached to a stud received by said arcuate slot whereby the position of said arch member may be varied.

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